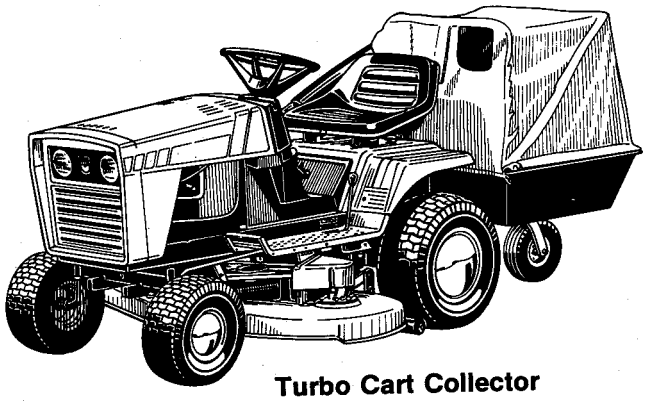
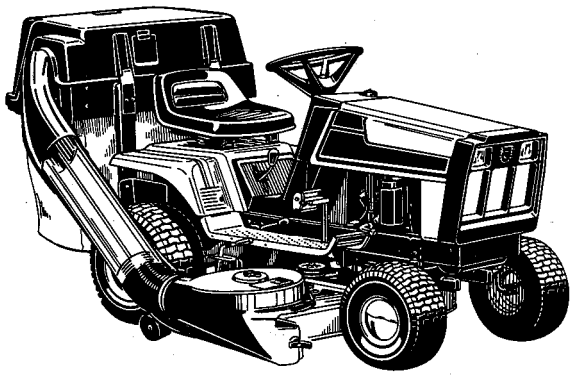
OPERATOR'S MANUAL

Turbo Collection Systems for Lawn & Garden Tractors



Turbo Cart Collector



Turbo Twin Bag Collector

36" BLOWER ASSEMBLY
MFG. NO. 1691356

42"/48" BLOWER ASSEMBLY
MFG. NO. 1691260

TURBO TWIN BAG COLLECTOR
MFG. NO. 1691186

TURBO CART COLLECTOR
MFG. NO. 1691525

FORM - 1703965-02
PRINTED IN U.S.A.
1/89

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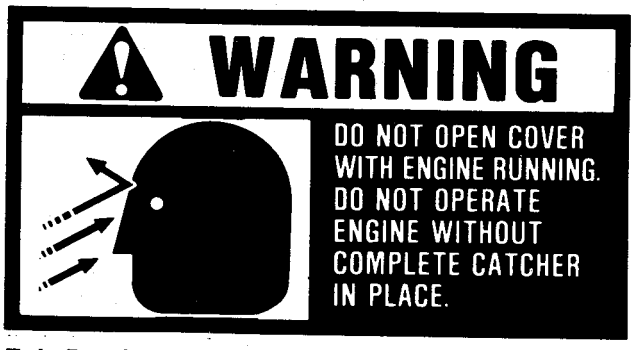
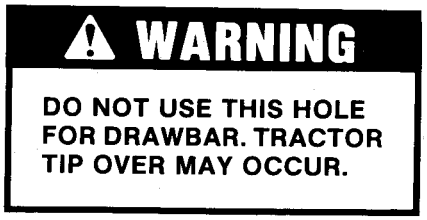
Safety Decals

Blower Decal



Twin Bag Collector Decal



Cart Decal

Safety Rules

Read these safety rules and safety rules in your Operator's Manual and follow them closely. Failure to obey these rules could result in loss of control of tractor, severe personal injury to yourself, or damage to property or equipment. The triangle ⚠ in the text signifies important cautions or warnings which must be followed.

⚠ WARNING

When blower assembly is removed from mower deck, the deflector must be installed as described in Operating Without Collection System.

1. Know the tractor controls and how to stop quickly. READ THE TRACTOR OWNER'S MANUAL.
2. Disengage PTO, shut the tractor engine off and wait for all moving parts to stop before attaching, adjusting, or disconnecting the Collection System.
3. Check the cart to make sure it is bolted tightly to tractor.
4. Check the latch handle to make sure it is engaged so the cart's box is locked to the frame.
5. Look behind to make sure the area is clear before backing up.
6. DO NOT turn sharply when the tractor is alongside a building or any object.
7. DO NOT carry passengers in the cart.
8. ⚠ **CAUTION:** For added tractor stability and to prevent tipping or loss of control;
   a. Use reduced speed on uneven ground and when turning corners.
   b. Reduce loads on hillsides. It is recommended that the Collection System be kept only half full when negotiating any slopes. Start mowing on slopes when the Collection System is empty.
   c. Mow up and down the face of slopes; **never across the face of any slope.**
9. ⚠ **WARNING:** When operating on slopes, use front counterweight. Never operate on slopes greater than 30% (16.7°).
10. ⚠ **CAUTION:** Objects may be thrown from mower. For your safety:
    a. DO NOT open or remove the cover while the mower blades are turning. Shut off the engine before opening the door or removing the grass chute.
    b. Be sure the complete Collection System is in place (cover secure and grass chute connected) before operating the mower.
    c. DO check the cart cover frequently for wear and tear. Replace with new cover for safety protection.
11. For best results when mowing grass: Set the mower to cut from 1 to 2 inches of grass. If grass is exceptionally tall, set your mower as high as possible for first cutting. Lower cutting height at succeeding cuttings until proper height is reached. It may be necessary to mow tall grass at a slower tractor ground speed (keep engine rpm's high).

Installation - 36" Blower Assembly

1. Remove the mower deflector by removing two carriage bolts, lockwashers and nuts. Install this hardware on the deflector for use when blower is removed for side discharge.

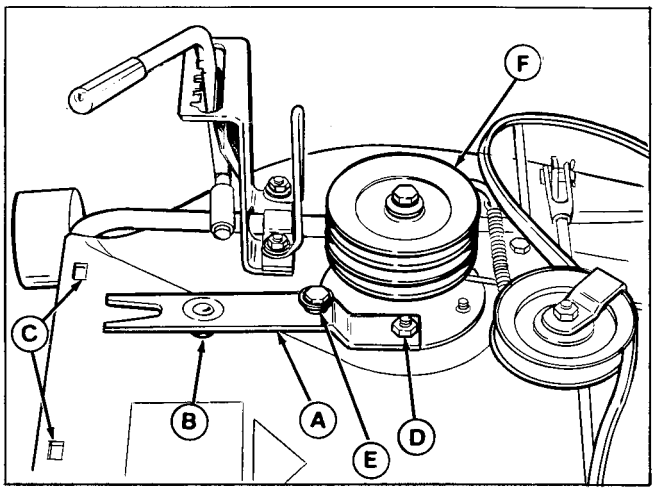


Figure 1.
A. Strap
B. Large Spacer
C. Holes, Deflector Mounting
D. Jamnut
E. Small Spacer
F. Double-Groove Pulley

2. The belt stop (A, figure 2) and hardware must be relocated to hole (C) shown. If existing belt stop mounting screw is longer than other arbor self-tapping screw, change screws with belt stop. If all screws are equal length, relocate belt stop only as shown by D, figure 2.

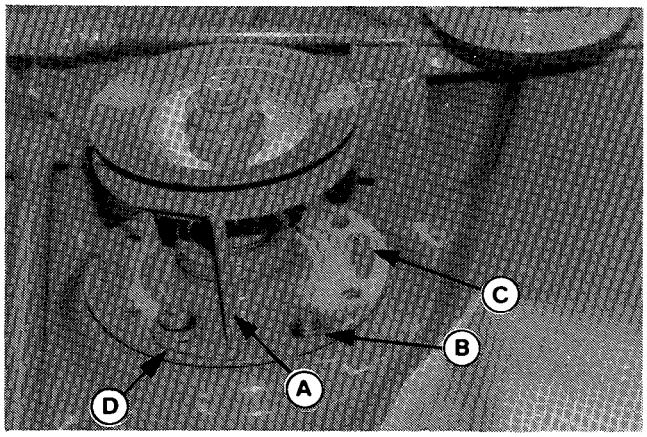


Figure 2.
A. Belt Stop
B. Original Belt Stop Location
C. Self-Tapping Screw
D. New Belt Stop Location

3. Install strap (A, figure 1) as follows:
   a. Drill a 9/32" hole for large spacer (B). Use the supplied template on the last page. Align template with deflector mounting holes (C).
   b. Install strap (A, figure 1) to deck with hardware shown in figure 2. Strap fits onto self-tapping arbor screw (C, figure 2).
   c. Check the installation. The strap should be secured to arbor screw with locknut (D, figure 1). The small spacer (E) should be above the strap. The large spacer (B) should be between strap and mower deck. Refer also to figure 3.

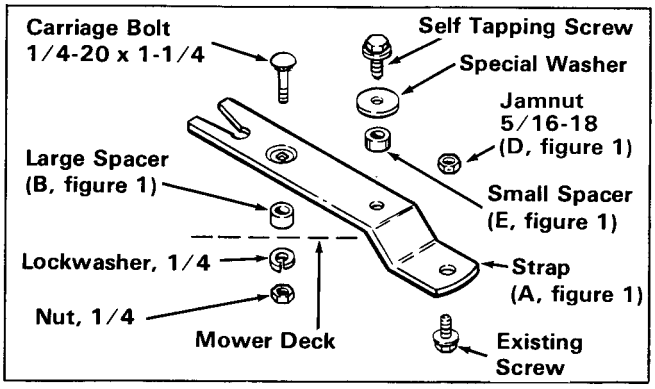


Figure 3.

NOTE

To ease installation, move the PTO rod so that brake is away from pulley.

4. Remove the existing right-hand arbor pulley and install the new double-groove pulley (F, figure 1) with existing capscrew, lockwasher and washer. Torque to 55 to 70 ft. lbs. Do not reinstall mower drive belt at this time.

5. Install the baffle (B, figure 4) as shown. Install retainer nut (E) in baffle, then screw the 1/4" whizlock screw (A) into retainer nut. Insert 1/4" carriage bolt (C) from inside deck and install lockwasher and nut (D).

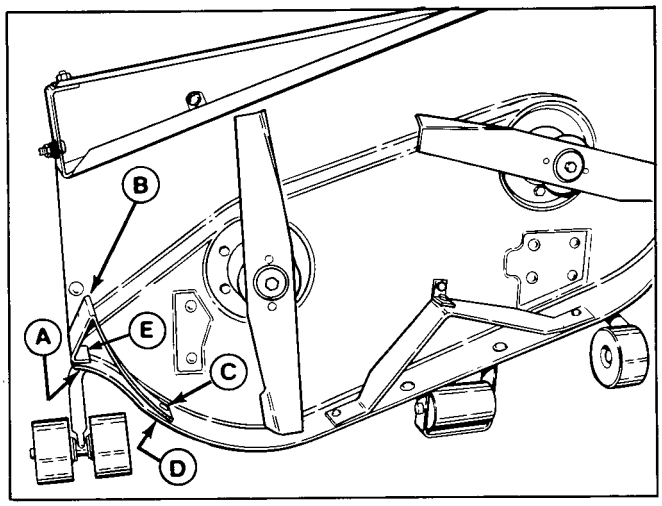


Figure 4.

A. Screw, Whizlock, 1/4-20 x 1/2
B. Baffle
C. Bolt, Carriage, 1/4-20 x 5/8
D. Lockwasher and Nut, 1/4
E. Retainer Nut (Not Shown)

6. Install wing nut (D, figure 5) assembly as follows. Insert 5/16-18 x 2-1/2 capscrew (F) and 5/16 washer (G) from inside the deck. Place the cup (A) onto the capscrew and install 5/16 lockwasher (B) and 5/16 nut (C). Tighten nut snug. Thread the wingnut (D) onto capscrew and install the 5/16 locknut (E) flush with end of screen.

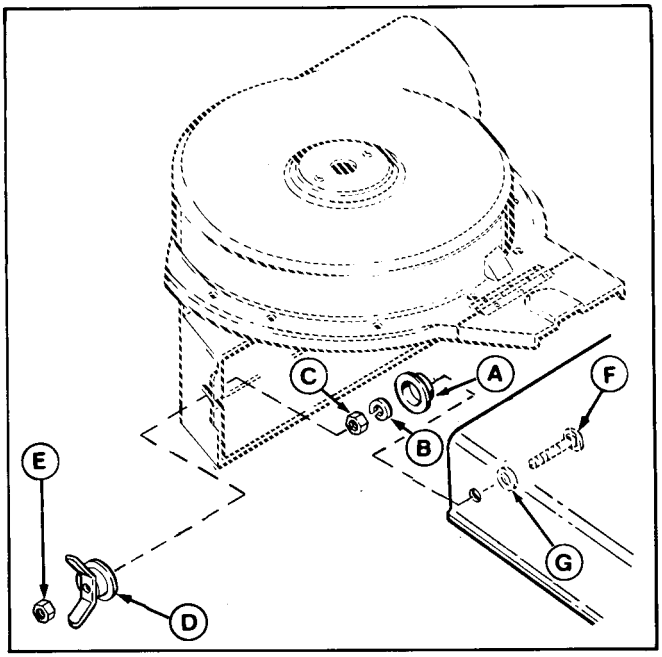


Figure 5.

A. Cup
B. Lockwasher, 5/16
C. Nut, 5/16
D. Wing Nut
E. Locknut, 5/16
F. Capscrew
G. Washer

7. Make sure that belt retainer (A, figure 6) is positioned correctly. Loosen the nut (B) and position the leg (C) so it is against the side of the idler arm (D). Then, tighten the nut (B).
8. Install the blower assembly (figure 6) onto mower deck as follows. Note that the notch (E) will be placed onto small spacer (G) on top of the strap. The blower assembly spacer (F) will fit into the strap notch (H).

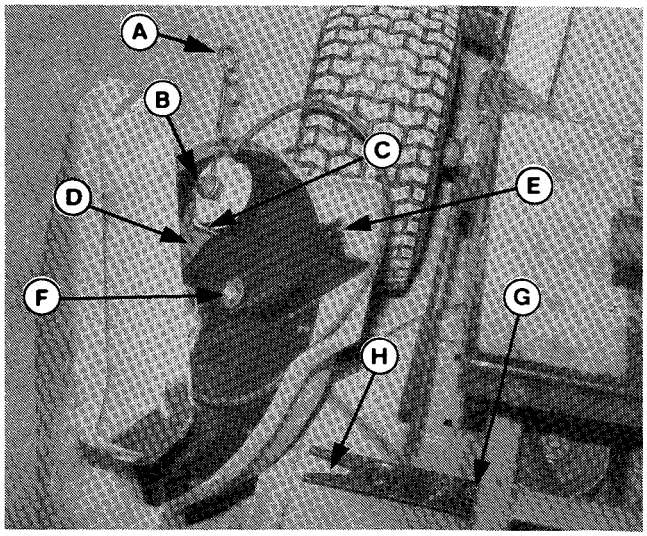


Figure 6.
A. Belt Retainer
B. Nut
C. Leg
D. Idler Arm
E. Notch
F. Spacer
G. Small Spacer
H. Strap Notch

   a. Slide the blower into position as shown in figure 7. and tighten the wing nut (A, figure 7).
   b. Push the belt retainer (B) to provide slack and install belt onto lower groove in pulley (C). (Rotate pulley while placing belt on.)
9. Place the deck drive belt in the upper groove of the pulley (C, figure 7).
10. This completes installation of the blower assembly. Install the tube and collection system by following directions provided in this manual. To remove the blower assembly, see "Operating Without Collection System."

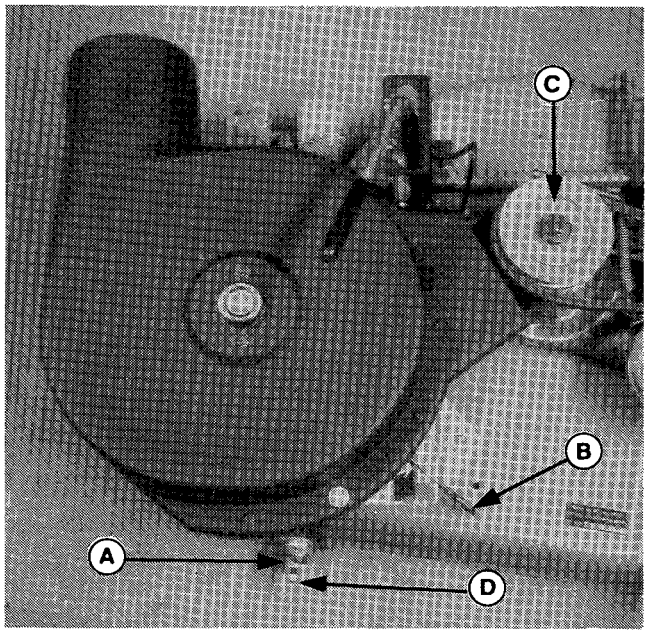


Figure 7.
A. Wing Nut
B. Belt Retainer
C. Pulley
D. Locknut, 5/16

Installation - 42"/48" Blower Assembly

1. Remove mower deflector and arbor cover as follows:
   a. Remove the mower deflector by removing two carriage bolts, lockwashers and nuts. Install this hardware on the deflector for use when blower is removed for side discharge.
   b. Remove the right hand arbor cover (A, figure 8) by removing washers and nuts in front that hold cover to deck. Also, remove nuts (B) and washers that secure rear tab(s) to arbor.
2. Slip mower belt off the right hand pulley. Remove the pulley from the arbor by removing capscrew and washers. Save washers for reinstallation. Use wood block to prevent blade from turning.

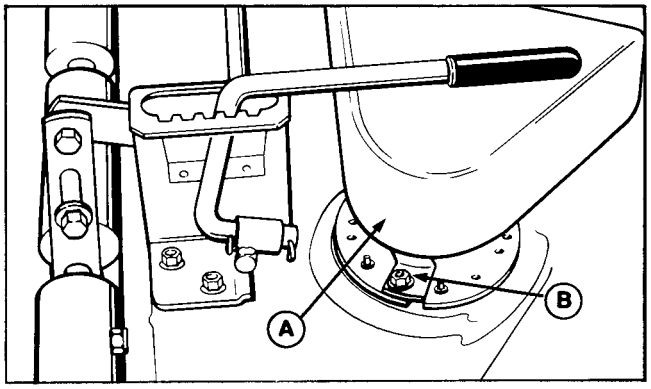


Figure 8.
A. Arbor Cover **B. Nut Cover**

3. Remove brake spring or spring anchor (if equipped) and two self-tapping screws from arbor at locations A, figure 9. Replace these with two 5/16-18 x 1-1/2 capscrews (A).

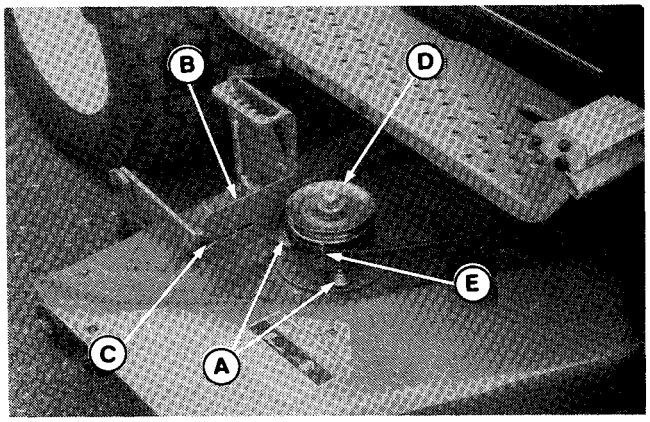


Figure 9.
A. Capscrews
B. Arbor Bracket **D. Arbor Pulley**
C. Notch **E. Belt Stop, Front**

4. Before installing arbor bracket (B, figure 9 & A, figure 10), remove washer from underneath blade brake bracket (rear capscrew). Arbor bracket is same thickness as washer and will replace washer. Loosen the front flange nut and remove the rear flange nut on the blade brake bracket.

NOTE

Rear belt stop should be installed facing inside of deck.

5. Install the arbor bracket (A, figure 10) and rear belt stop (B) as shown. Note the different holes for the 42" and 48" mowers. On the 42" deck, install a jamnut at rear bracket location instead of flange whiz nut. Tighten nut (F) snug only - belt stop will be adjusted in step 8.

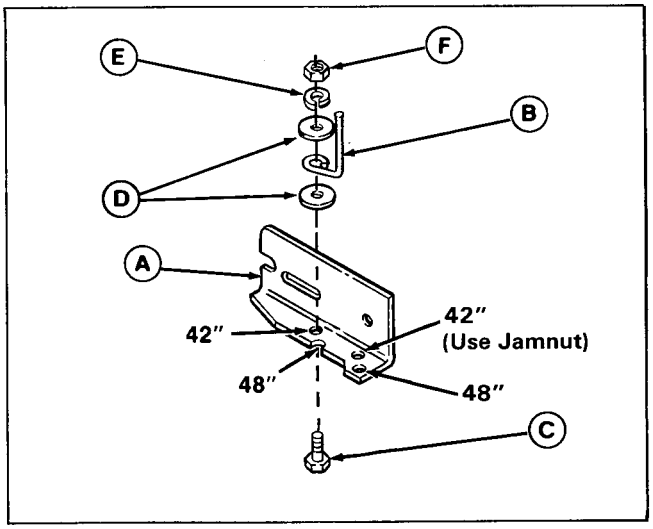


Figure 10.
A. Arbor Bracket **D. Large Washers**
B. Belt Stop **E. Lockwasher**
C. Capscrew **F. Nut**

NOTE

Front belt stop should be installed facing outside of deck.

6. Install the front belt stop (A, figure 11) onto 5/16-18 x 1-1/2 capscrew (installed in step 3) as shown. If removed, reinstall brake spring or spring anchor (F) before flange nut (G). Tighten nut (E) snug only - belt stop will be adjusted in step 8.

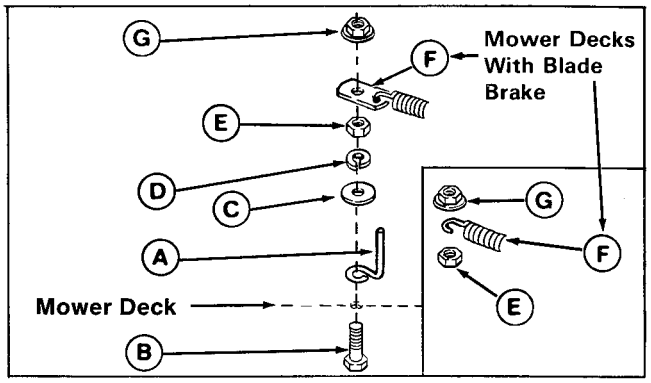


Figure 11.

A. Belt Stop
B. Capscrew
C. Large Washer
D. Lockwasher
E. Nut
F. Spring or Spring Anchor
G. Flange Locknut

7. Install new double-groove arbor pulley (D, figure 9) with hub down. Use new 7/16-14 x 2-1/4 capscrew and washers removed in step 2. Torque to 55 to 70 ft. lbs. Use wood block to prevent blade from turning. It may be necessary to add washer(s) (C, figure 12, two provided) underneath the new pulley to properly align brake pad and bottom groove. Refer to figure 12. Add washers to adjust top-to-bottom alignment; 1/16" clearance must be adjusted after belt is installed and PTO is engaged.
8. Slip the mower drive belt onto the lower groove of the new pulley (D, figure 9). With the mower PTO engaged, adjust the belt stops 1/8" from belt. Tighten the hardware.
9. If mower is equipped with blade brake, adjust the brake after installing new double groove pulley as follows:
   a. Engage the PTO lever. Be sure that mower drive belt tension is correctly adjusted (see Operator's Manual).
   b. Inspect the brake pad (A, figure 12) to V-pulley (B) clearance. With PTO engaged, clearance should be 1/16 inch as shown in figure 12.
   c. If adjustment is required, turn adjusting nuts (A, figure 13) until proper clearance is reached.

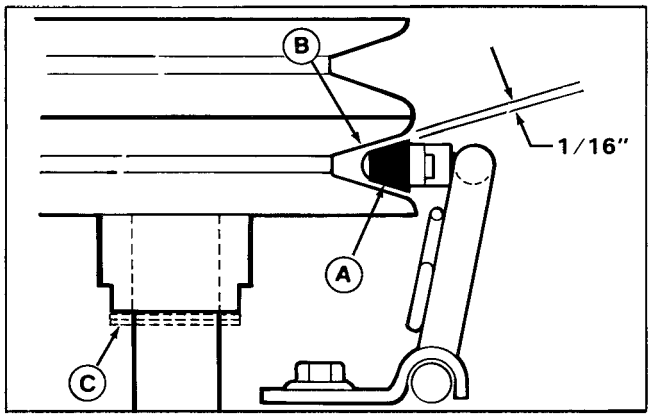


Figure 12.

A. Brake Pad
B. Bottom Groove - Double Pulley
C. Washers (If required)

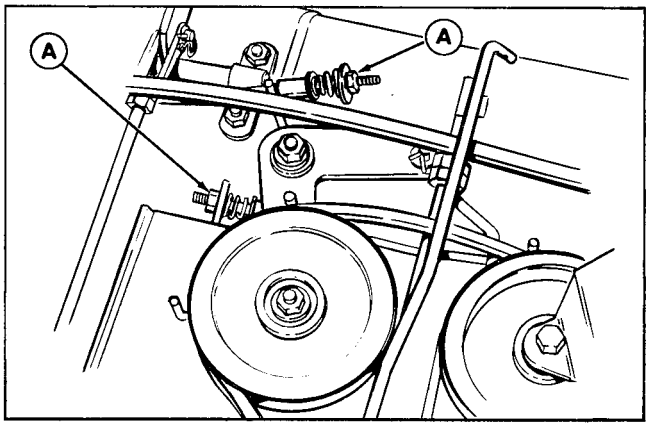


Figure 13.

A. Blade Brake Adjustment Nuts

10. The baffle (A, figure 14) is installed in the blower housing for use with 42″ mower. For use with 48″ mower, remove the baffle and install in hole marked 48″.

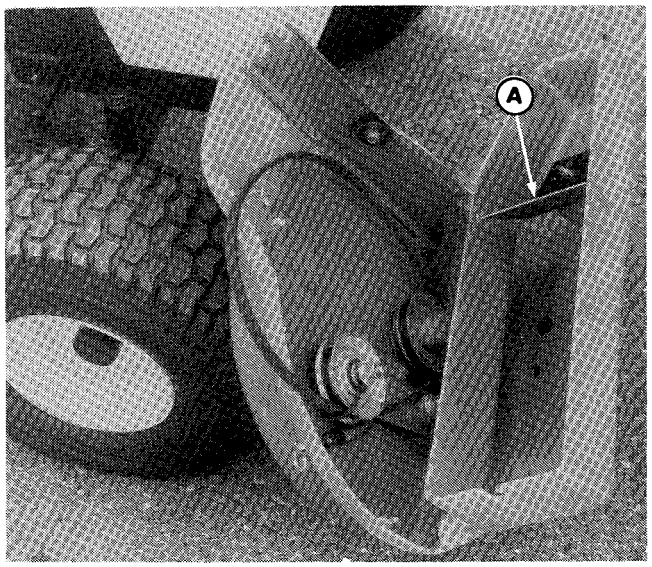


Figure 14.
A. Baffle

NOTE

On 42″ and 48″ mowers, the capscrew installed in next step is used in the hole occupied by a screw held in place by a retaining nut.. (This screw secured the right-front corner of the arbor cover.) Remove this screw(s) from mower deck by tapping out with a hammer or prying off the retaining nut.

NOTE

The pulley cover and mounting hardware installed in next step is packaged with the turbo collection attachment.

11. Install the pulley cover (B, figure 15) with hardware shown, items E through M. (Figure 15 shows blower housing but it is not installed at this point of the procedure.)

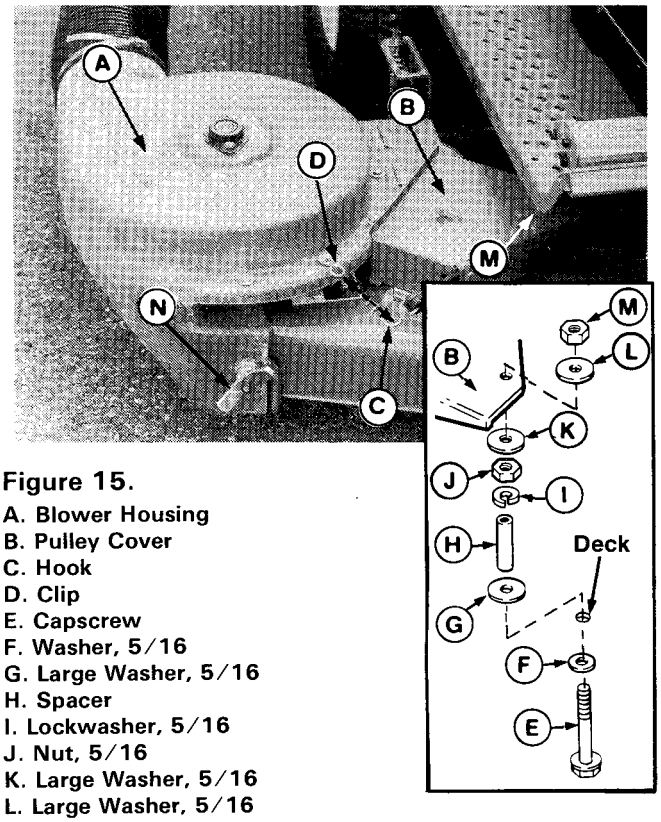


Figure 15.
A. Blower Housing
B. Pulley Cover
C. Hook
D. Clip
E. Capscrew
F. Washer, 5/16
G. Large Washer, 5/16
H. Spacer
I. Lockwasher, 5/16
J. Nut, 5/16
K. Large Washer, 5/16
L. Large Washer, 5/16
M. Locknut, 5/16
N. Wing Nut

12. Install wing nut (D, figure 16) as follows:
    a. Remove existing hardware from front end of stone guard.
    b. From inside deck, install new 5/16-18 x 2-1/4 carriage bolt (F, figure 16). Then install the cup (A), 5/16 lockwasher (B), and 5/16 nut (C). Tighten the nut.
    c. Thread the wing nut (D) far enough onto the screw so that the 5/16 locknut (E) can be threaded on flush with the end of screw.

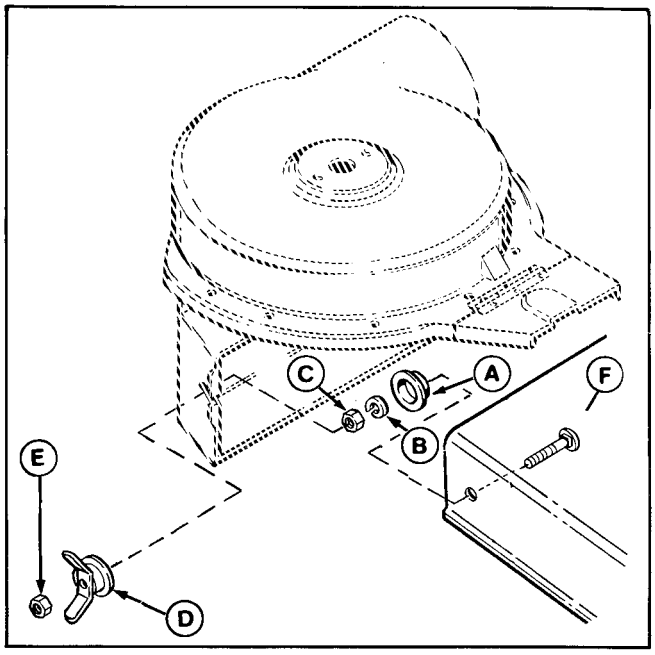


Figure 16.

A. Cup
B. Lockwasher, 5/16
C. Nut, 5/16
D. Wing Nut
E. Locknut, 5/16
F. Carriage Bolt

13. Install the new baffle (A, figure 17) in deck on stone guard using existing hardware. Hardware may be installed with nut to inside or nut to outside.

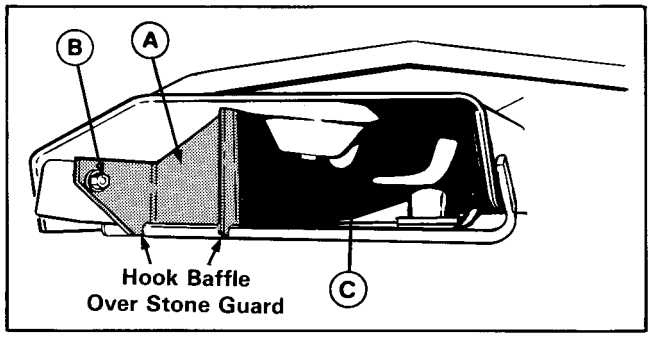


Figure 17.

A. Baffle
B. Carriage Bolt
C. Mower Discharge Opening

14. Make sure that the belt retainer (A, figure 18) is correctly positioned before blower installation. Turn blower housing upside down and position belt retainer (A) so that leg (C) contacts side of idler arm (D) as shown. Tighten nut (B) securely.

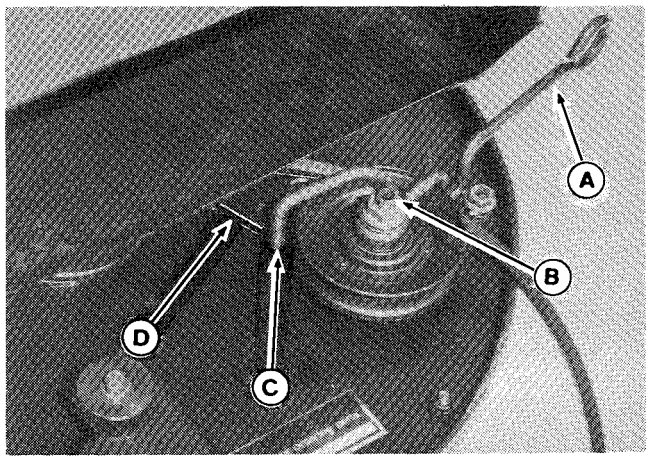


Figure 18.

A. Belt Retainer
B. Nut
C. Leg
D. Idler Arm

15. Install the blower assembly as follows:

a. Pivot cover (B, figure 15) away to expose the arbor.

b. Align the notch (G, figure 19A) with spacer on arbor bracket. Align spacer (C) with notch (C, figure 9) on arbor bracket. Slide the assembly into place as shown in Figure 19B, while aligning front notch between cup and wing nut (D, figure 16). Tighten wing nut. (Blower is also shown installed in figure 15.)

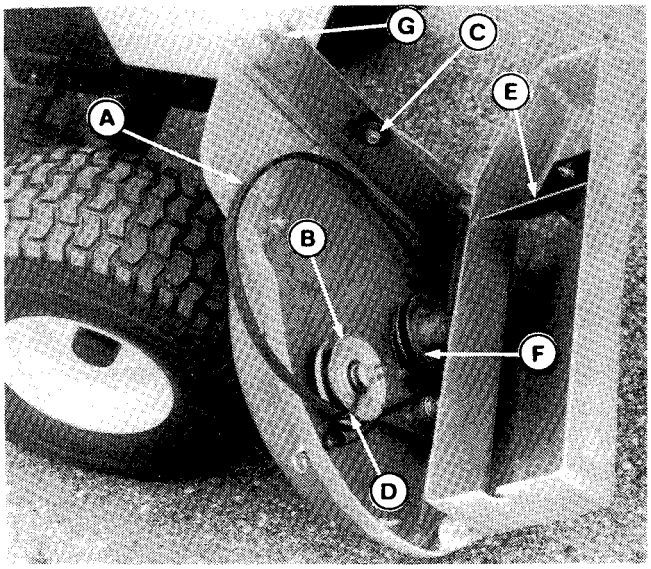


Figure 19A.
A. Blower Drive Belt
B. Idler Pulley
C. Spacer
D. Belt Retainer
E. Baffle
F. Driven Pulley
G. Notch

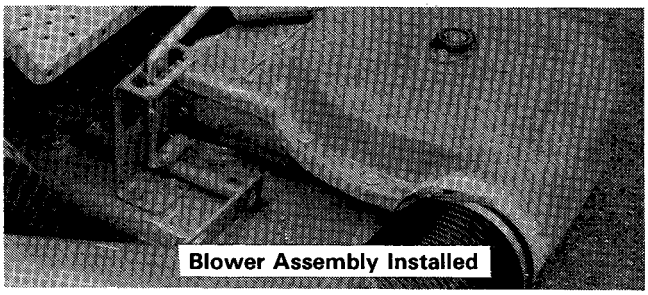


Figure 19B.

c. Place mower in low cut position. Raise the flap (A, figure 20A) and push on the belt retainer (D, figure 19A) to obtain slack in the belt. Install the blower drive belt (D) in the top groove of the pulley (B). Pivot pulley cover (E, figure 20B) away to expose flap.)

d. Rotate the pivoting cover (E, figure 20B) into place and attach the hook (F) to the clip (G) on the housing.

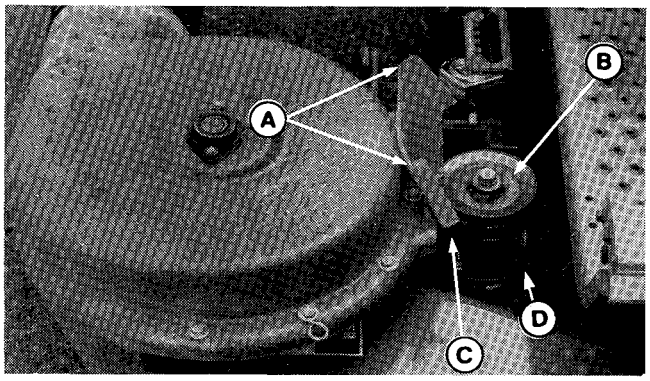


Figure 20A.
A. Flap
B. Pulley
C. Belt
D. Drive Belt

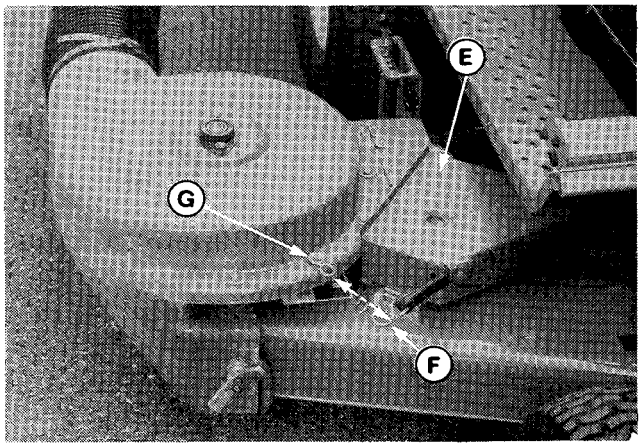


Figure 20B.
E. Pulley Cover
F. Hook
G. Clip

Installation and Operation - Twin Bag Collector

INSTALLATION

1. On each side of tractor, remove existing capscrew, lockwasher and nut (figure 21). (On hydrostatic lawn tractors, disconnect brake spring on left side. 6500/1800 hydrostatic garden tractors do not have brake spring.) Install the spacer (F) as shown using existing lockwasher and nut, and new plain washer and capscrew.

NOTE

On hydrostatic lawn tractors, use the existing 1-1/2" capscrew on the left-hand side. After installation, hook-up the brake-return spring to the 1-1/2" capscrew (if applicable). Install 3/8" locknut to secure spring.

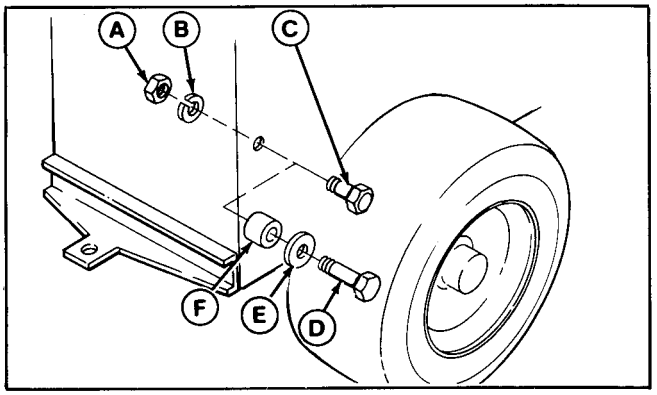


Figure 21.

A. Nut
B. Lockwasher
C. Capscrew (on tractor)
D. Capscrew, 3/8 x 1-1/4
E. Flat Washer, 3/8
F. Spacer

2. On 6200/T-800 tractors, install support (D, figure 22) with three 3/8-16 x 1-1/4 capscrews, 3/8 lockwashers and nuts. Bolts must be installed from the outside as shown.

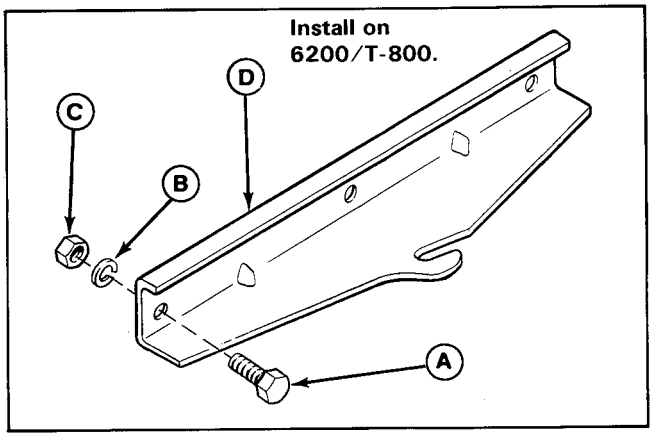


Figure 22.

A. Capscrew, 3/8-16 x 1-1/4
B. Lockwasher, 3/8
C. Nut, 3/8
D. Support

3. On 6500/1800 hydrostatic garden tractor, check drawbar mounting capscrews (figure 23). If flange whiz nuts (A, figure 23) are installed on tractor drawbar, 1" outside capscrews must be replaced with 3/8-16 x 1-1/4" capscrews. If lockwashers and nuts are installed, 1-1/4" capscrews are already installed on tractor. To change hardware:
   a. Remove 1" capscrews from outside location and 3/4" capscrew from middle location. (Parking brake should be set for increased clearance.) Capscrews are retained by pushnuts and can be tapped out.
   b. Install 1" capscrew (from outside hole) to middle hole location.

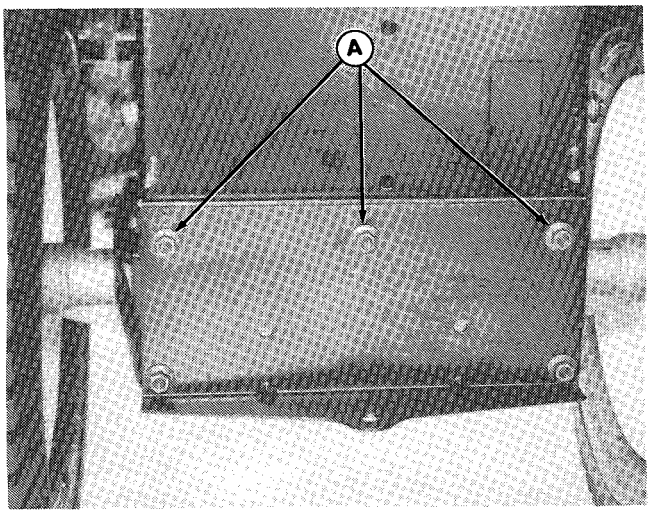


Figure 23.

A. Flange Whiz Nuts

c. Install two 1-1/4″ capscrews in outside hole locations. Install collector hitch (A, figure 24) over drawbar and secure with lockwashers and nuts.

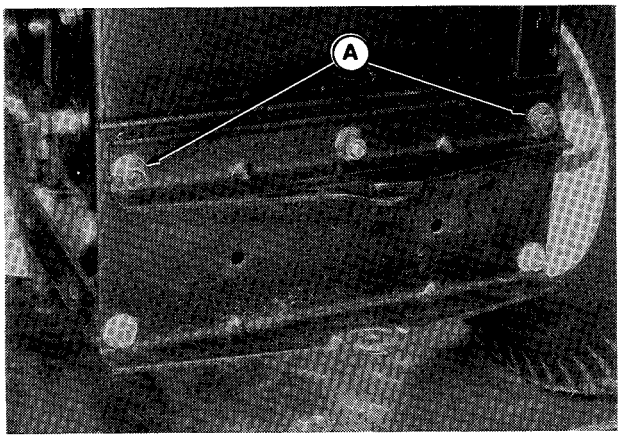


Figure 24.
A. Collector Hitch

4. Hook the frame (A, figure 25) onto the spacers installed in step 1. Connect to drawbar with clevis pin and hairpin clip (B).

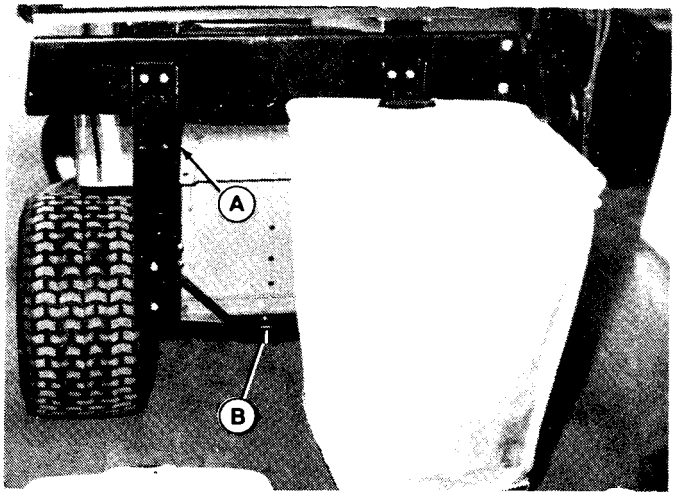


Figure 25.
A. Frame
B. Clip

5. Connect the elbow bracket (B, figure 26) to right-hand rear side of frame by inserting 5/16-18 x 7/8 carriage bolts (A) from rear and secure with 5/16″ lockwashers and nuts.

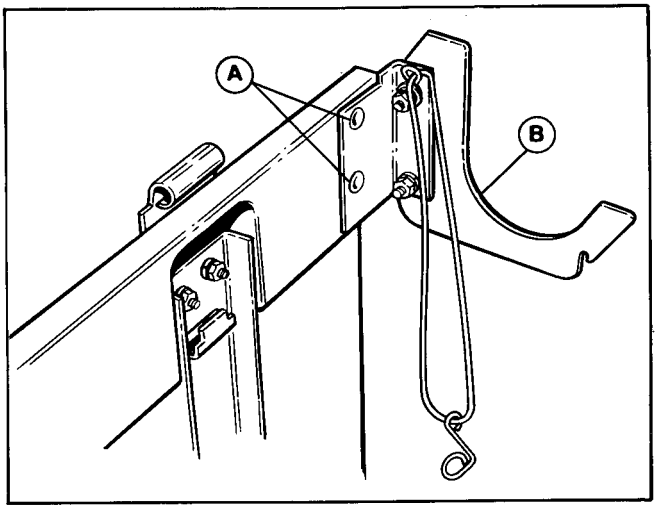


Figure 26.
A. Bolts
B. Elbow Bracket

6. Attach hose (A, figure 27) to blower housing (B) with clamp (C) and tighen with a screwdriver or wrench.

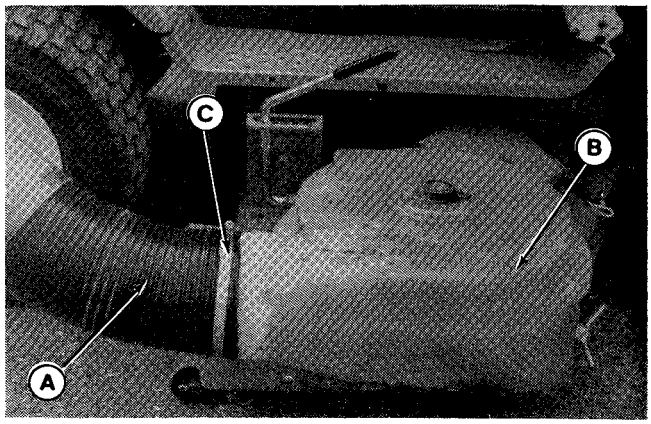


Figure 27.
A. Hose B. Blower Housing C. Clamp

7. Insert tube (A, figure 28) into elbow, then insert the elbow (B) into the elbow bracket (E). Pull the rubber strap (C) over the elbow and hook as shown.

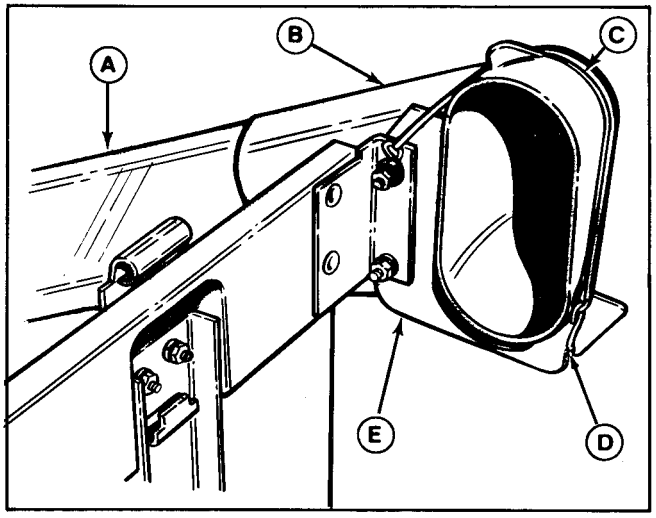


Figure 28.
A. Tube
B. Elbow
C. Rubber Strap
D. Hook
E. Elbow Bracket

8. Place cover (C, figure 29) onto frame and align the hinges. Insert pins (A) and install clips (B).

NOTE

The front edge of cover must seat against cross member. Loosen the four nuts (D), adjust cover as necessary, then retighten the nuts.

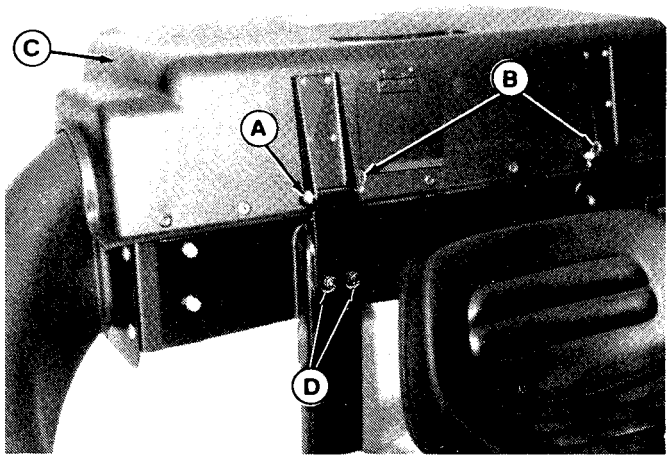


Figure 29.
A. Pins
B. Clips
C. Cover
D. Nuts

9. The grass bag must be installed onto the hanger. Insert one end of the hanger into hole in seam of bag as shown in figure 30. Then, continue routing bag around (figure 31) until the two ends of hanger extend through hole in seam of bag. Be sure the handle is on bottom of bag. (If handle is inside bag, the bag is inside-out.)

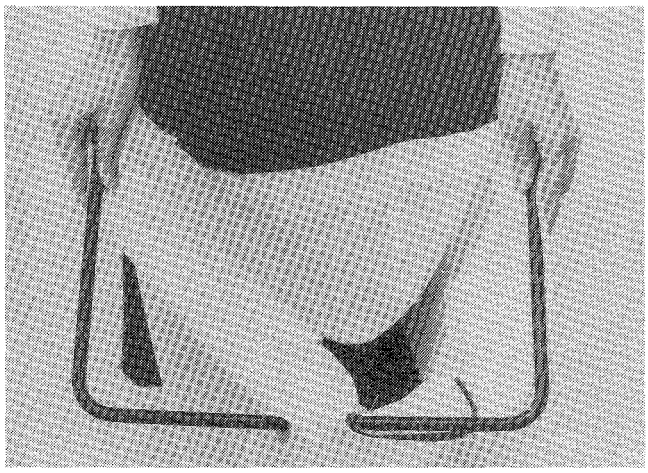


Figure 30.

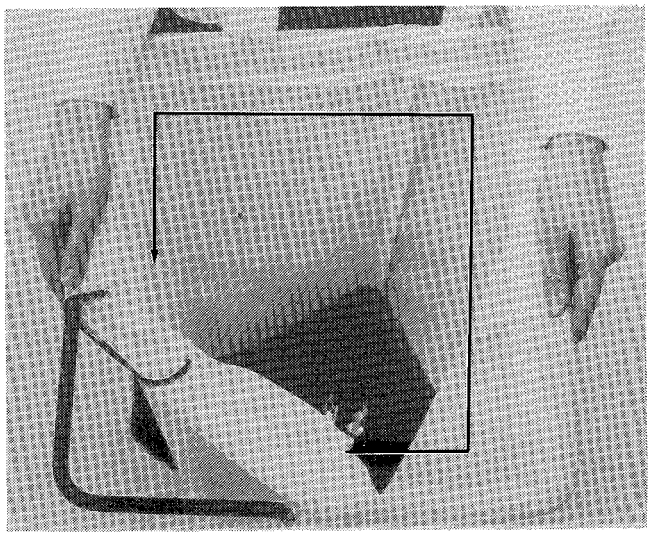


Figure 31.

10. Position the white clip (figure 32) along back edge of bag.
11. Connect brackets to the bag frames with slot in bracket toward top (figure 33). The cloth is shown cut away for clarity only. Be sure brackets are outside bag.
12. Hang the bags onto the frame by hooking onto slotted bracket as shown in figure 32. Installation is now complete.

NOTE

If bag does not hang straight, loosen nuts (C, figure 33) and twist hoop. Then retighten nut.

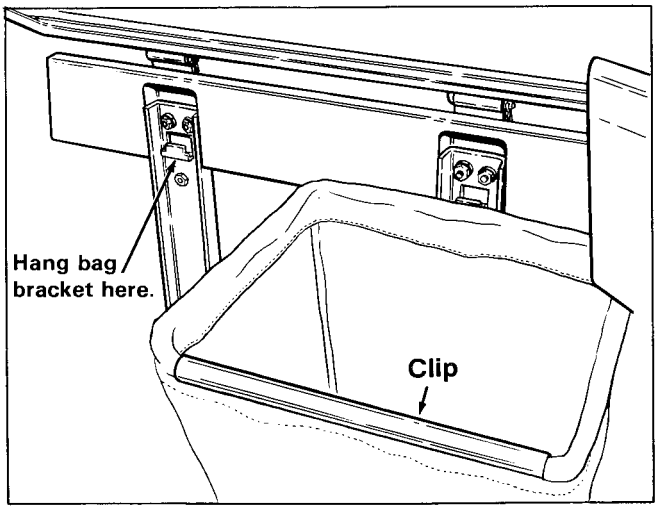


Figure 32.

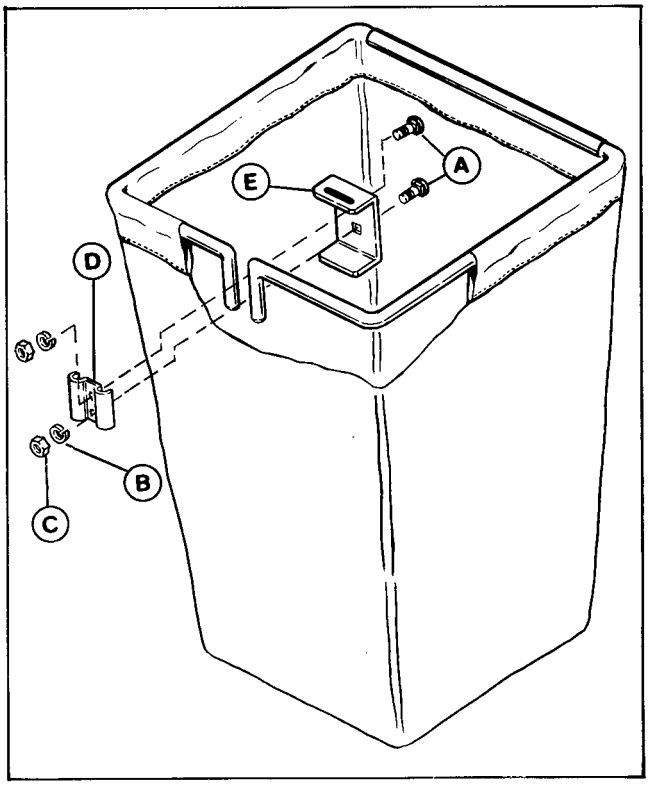


Figure 33.

A. Bolt, Carriage, 5/16 x 7/8
B. Lockwasher, 5/16
C. Nut, 5/16
D. Bracket
E. Slotted Bracket

Operation

BEFORE OPERATION

Clear the lawn of all sticks, stones, wire and other debris which may be caught or thrown by the mower blades.

Clean the tube with mild detergent (other products may damage tube). The flow of grass can be seen through the tube while mowing.

Check grass condition. If wet, wait until later in the day. If grass is wet, plugging may occur.

For efficient bagging, air circulation under the mower deck, through the cute and into the bag is very important. For this reason, you should remove grass and debris from underside of mower deck, discharge chute and screen inside cover.

The tube and elbow can be removed as an assembly for cleaning. Remove the clamp that holds the tube to blower housing and unhook rubber strap from elbow.

If desired, the bags can be lined with 30 gallon trash bags for easy disposal.

OPERATION

Grass should be cut often, and not too short. If grass is too long or lush it may be necessary to keep ground speed to a minimum or to cut only half the width to prevent clogging. If grass is high, operate with mower in high cutting position. Cut the grass again in lower cutting position, if desired.

To check if bags are full, open the inspection door, located directly behind the operator's seat.

Always operate with throttle at full speed.

EMPTYING THE BAGS

NOTE

If seat has spring suspension, tilt the seat forward to allow cover to remain in "up" position.

Raise the cover. If a plastic liner was not used, unhook the bag and turn upside down to empty (use handle on bottom).

If plastic liner was used, first tie up top of liner. Then, either pull the liner out, or turn the bag upside down and allow the filled liner to slide out.

WARNING

For safety reasons grass and debris are to be removed only after engine is shut off, key removed, and all moving parts stopped.

WARNING

Before raising cover, shut off engine, remove key, and set parking brake.

Installation and Operation - Cart Collector

CART ASSEMBLY

1. Remove all parts from inside the cart's box. Open the bag of parts and sort the fasteners into groups for easier assembly of the cart (figure 34).
2. Turn cart box on one side.
   a. Bolt U-bracket to bottom of box with two 5/16 x 3/4 long round head bolts. Secure with two 5/16 lockwashers and nuts.
   b. Bolt latch handle to front side of box. Place one 5/16 x 1-1/4 long hex bolt with 5/16 flat washer through the inside of the box. Next place a spring washer, latch handle, spring washer (side with grooves on outside), flat washer, nut, and locknut. Refer to figure 34. Tighten the locknut until the latch handle moves slowly.
3. Bolt swivel wheel to the H-frame.
   a. Place the head of the swivel (end with four slotted holes) inside the H-frame (side with the ends bent upward). Swivel wheels must be installed as shown to H-frame so that retaining hardware does not contact bottom of cart box.
   b. Align the holes and place four 3/8 x 1 long hex bolts from top down with 3/8 flat washers through the head of the swivel and frame.
   c. Secure with four flat washers and locknuts.
4. Turn cart's box upside down and install H-frame to U-bracket.
   a. Align the two ends of the H-frame (end with the swivel wheel attached) to the U-bracket and secure with two 1/2 x 1-1/4 long hex bolts and 1/2 locknuts.
   b. DO NOT over tighten the locknuts. The box pivots at this point for dumping.
5. Turn latch handle to lock the H-frame to the cart's box and turn cart upright.

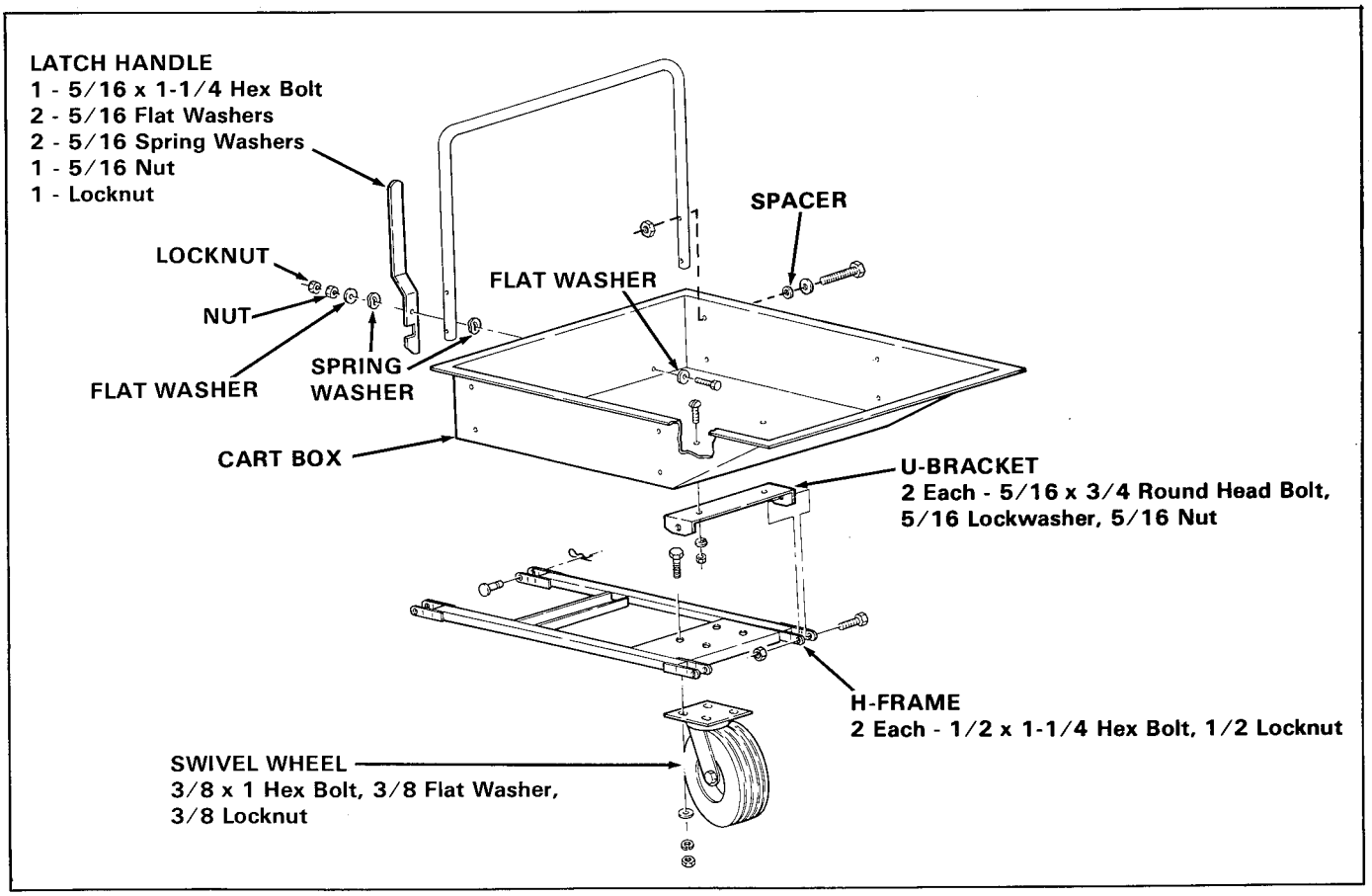


Figure 34.

BRACKET INSTALLATION

The Cart Collector attaches to a mounting bracket, which is bolted to the tractor's back plate. The same bracket is used on the lawn and garden tractors, but is installed differently. Once bolted in place, the bracket never needs to be removed. For lawn tractors, see Section A. For early model garden tractors (6200/T-800), see Section B. For 6500/1800 garden tractors, see Section C.

Section A: Bracket Installation on Lawn Tractor

1. Remove the drawbar plate from the back plate of the lawn tractor.
2. Install the bracket (figure 35) to the back plate through the same holes where the drawbar plate was bolted. Use the three 3/8-16 x 1-1/4 hex bolts and locknuts (A, figure 36).

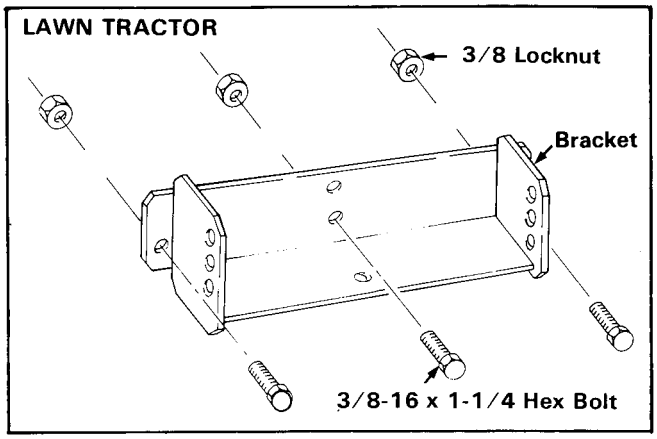


Figure 35.

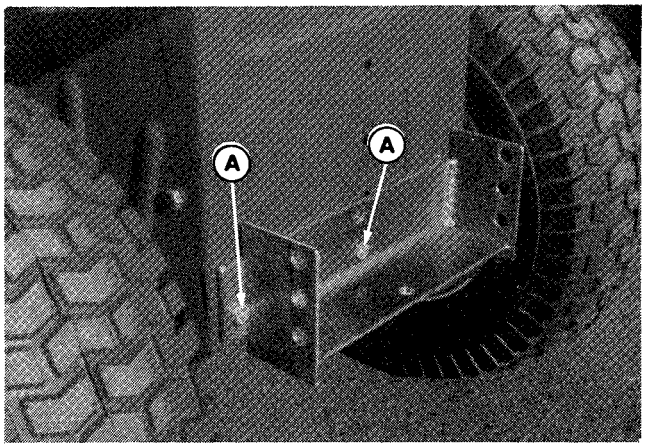


Figure 36.
A. Hardware

Section B: Bracket Installation on 6200/T-800 Tractor

1. Install the bracket to the back plate as shown in figure 37, using three 3/8-16 x 1-1/4 hex bolts and locknuts. In the top, center hole (A, figure 37), install a 3/8 x 3/4 bolt and 3/8 locknut to prevent bracket being used as a drawbar.

CAUTION

Do not remove the existing drawbar. Do not use the bracket as a drawbar.

2. Install the decal (see inside front cover) to top of bracket beside hole (A).

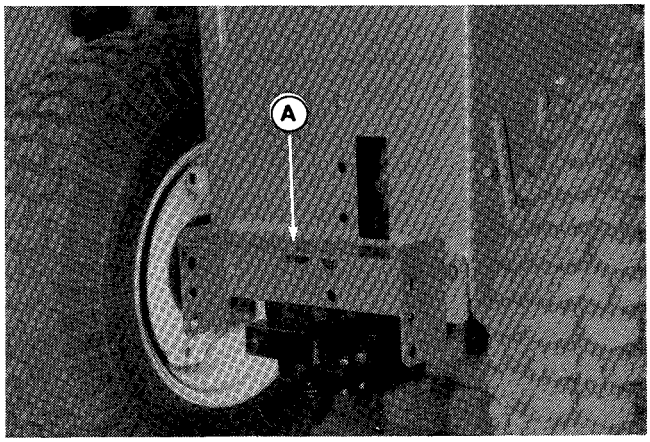


Figure 37.
A. Top Center Hole

Section C: Bracket Installation in 6500/1800 Garden Tractors

1. On 6500/1800 hydrostatic garden tractor, check drawbar mounting capscrews (figure 38). If flange whiz nuts (A, figure 38) are installed on tractor drawbar, 1" capscrews must be replaced with 3/8-16 x 1-1/4" capscrews. If lockwashers and nuts are installed, 1-1/4" capscrew are already installed on tractor. To change hardware:
   a. Remove 1" capscrews from outside location and 3/4" capscrews from middle location. (Parking brake should be set for increased clearance.) Capscrews are retained by pushnuts and can be tapped out.
   b. Install 1" capscrew (from outside hole) to middle hole location.
   c. Install two 1-1/4" capscrews in outside hole locations. Install collector hitch (A, figure 39) over drawbar and secure with lockwashers and nuts. (Do not reuse flange whiz nuts.)
   d. In the top, center hole (B) of hitch, install a 3/8 x 3/4 bolt (B) and locknut to prevent bracket from being used as a drawbar.
   e. Install the hitch decal (see inside front cover) at the top center hole (B).

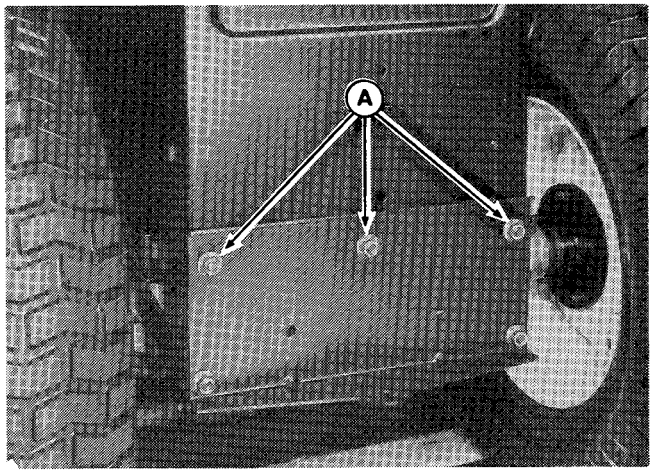


Figure 38
A. Flange Whiz Nuts

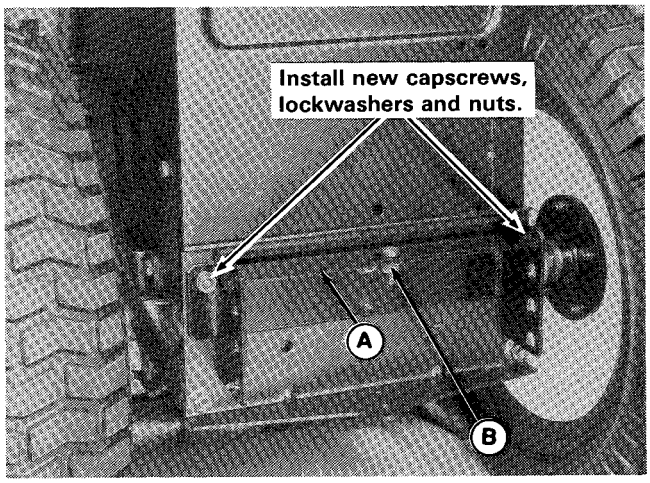


Figure 39.
A. Collector Hitch B. Top Center Hole

ASSEMBLY OF FRAME AND COVER

1. Install the frame (A, figure 40) at four locations with 5/16-18 x 1-1/2 capscrew (B), washer (C) and locknut (D). Install spacers (E) at top capscrew on each side.

NOTE

Frame should only be installed one way. Holes in upper frame must be toward mower discharge side (see figure 40).

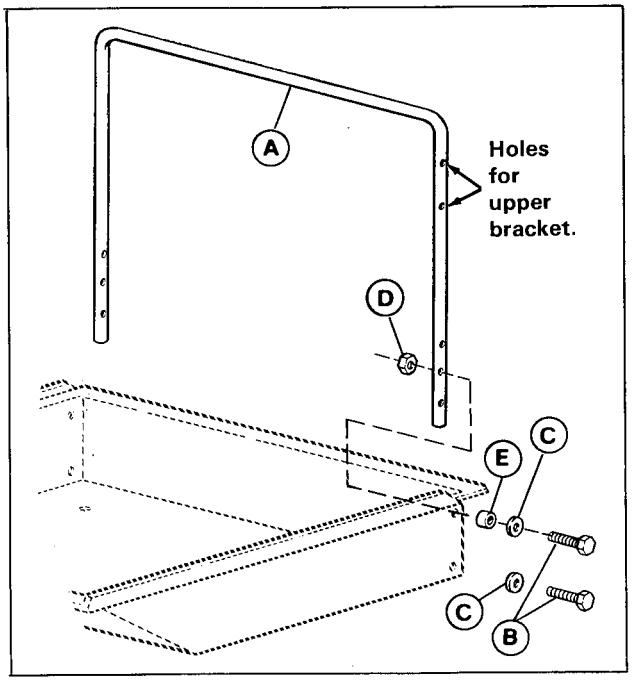


Figure 40.
A. Frame
B. Capscrew 5/16-18 x 1-1/2
C. Washer
D. Locknut
E. Spacer

2. Attach the bracket (A, figure 41) with two 5/16-18 x 1-3/4 carriage bolts (B), flat washer (C) or lockwasher (G), and nuts (D). Attach strap (E) with lower set of hardware as shown in figure 41.

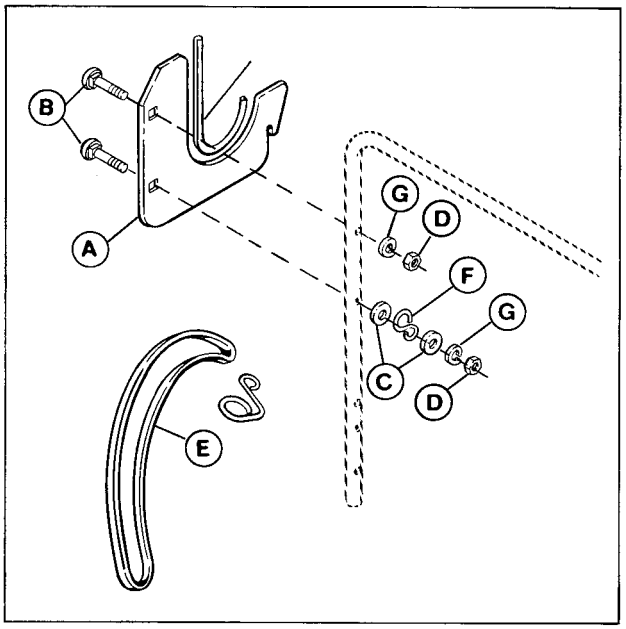


Figure 41.
A. Bracket
B. Carriage Bolts 5/16-18 x 1-3/4
C. Flat Washer
D. Nut
E. Strap
F. Hook
G. Lock Washer

3. The support rod and frame rod must be inserted into the cover (C, figure 42) as follows:
   a. The frame rod (B, figure 42) must be inserted through the bottom sleeve of the cover so that the two bent ends extend out openings, which are next to the cord loops (D). The frame rod position is indicated by dotted line (B, figure 43).
   b. The support rod (A, figure 42), which has eyebolt ends, must be threaded through the sleeve inside the cover. The position is indicated by dotted line (A, figure 43).

NOTE

When you pick up cover to place over the frame, be sure support rod (A, figure 42) is inside frame rod (B).

4. Insert the elbow (E, figure 42) into the cover opening.

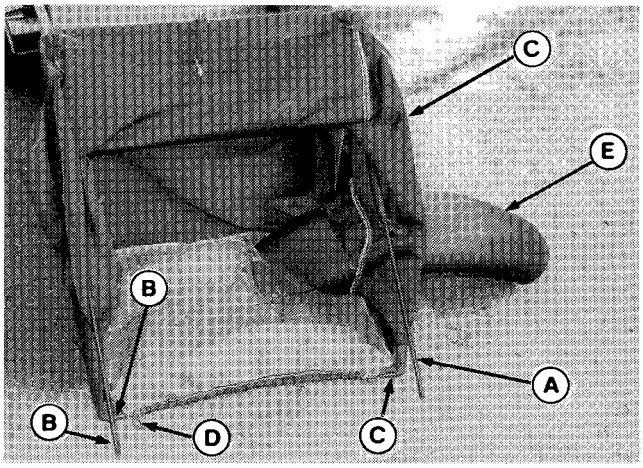


Figure 42.
A. Support Rod.
B. Frame Rod
C. Cover
D. Cord Loops
E. Elbow

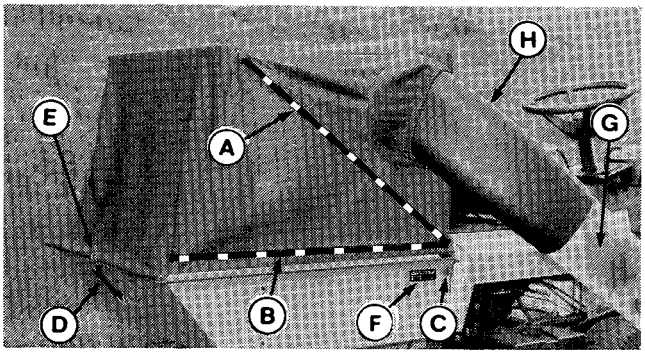


Figure 43.
A. Support Rod Location
B. Frame Rod Location
C. Cord Loop
D. Strap
E. Clip
F. Decal, Warning
G. Tube
H. Elbow

5. Pick up the cover and place down onto the frame (D, figure 44), inserting the elbow (A) into the bracket (B) (shown without cover for clarity). Pull the rubber strap (C) over the elbow and hook into bracket as shown.

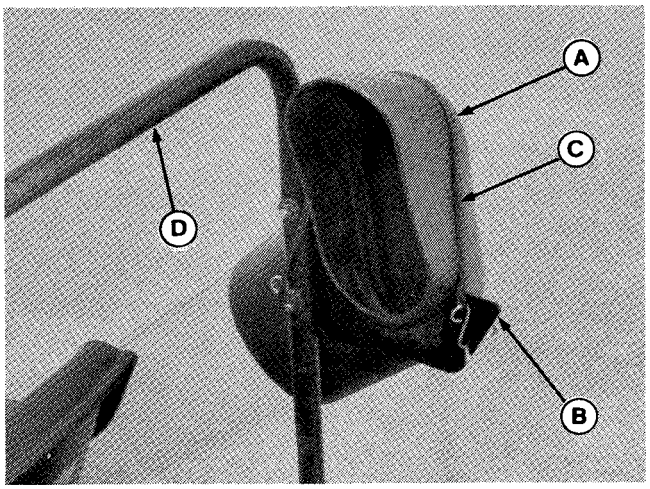


Figure 44. (Shown without cover for clarity.)
A. Elbow
B. Bracket
C. Strap
D. Frame

6. On each side, place the eyebolt end of the support rod (B, figure 42) onto the frame rod, then insert frame rod (A, figure 45) through the frame (B). Insert clip (C) through frame rod to secure.
7. Insert an "S" hook to each end of the strap (D, figure 43). Hook one end through clip (E) and pinch closed with a pliers.
8. Pull the cover down so it appears as in figure 43. To secure the front, pull the cord loops (C) onto the spacers. To secure the rear, hook the strap (D) onto back of cart as shown.
9. Install warning decal (F, figure 43) so it is visible from right-hand side. Make sure surface is clean. Remove backing paper and tack edge of decal in position. Then apply with heel of hand, smoothing out bubbles. The edge of a ruler can also be used.

⚠ WARNING

It is important for the operator's safety that the warning decal be installed.

10. Attach hose (A, figure 45A) to blower housing (B) with clamp (C) and tighten with a screwdriver or wrench.

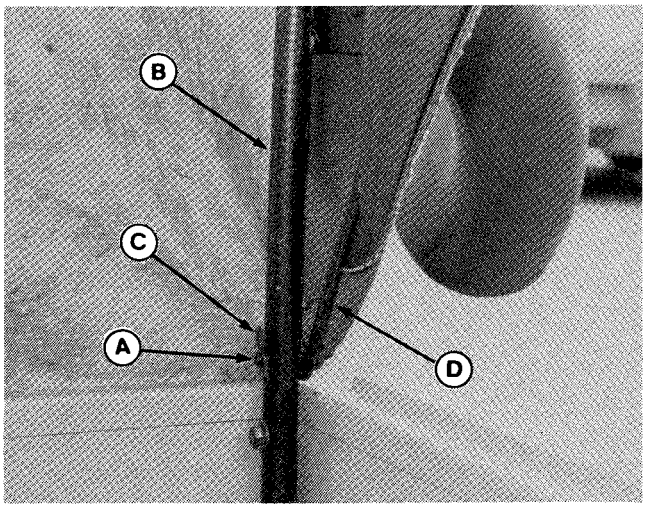


Figure 45.
A. Frame Rod
B. Frame
C. Clip
D. Support Rod

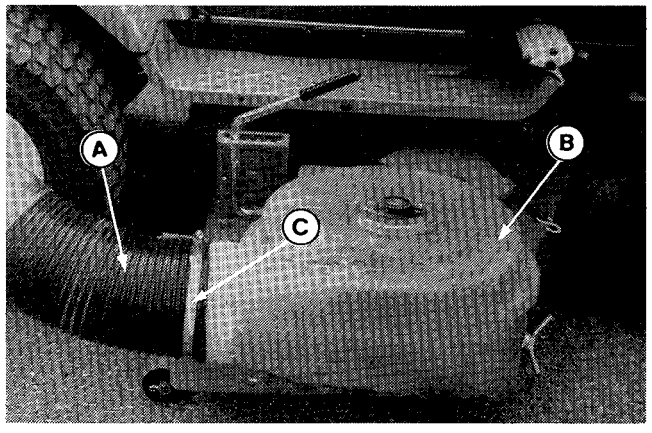


Figure 45A.
A. Hose
B. Blower Housing
C. Clamp

Maintenance

WARNING

The cart cover is subject to wear and deterioration. Check the cover frequently. Use an approved replacement cover.

The cover can be rinsed with a hose when dirty. A dirty cover will inhibit the fast flow of grass clippings into the cover. Do not leave grass or leaves in the cart for a long period of time.

Operation

WARNING

For safety reasons grass and debris are to be removed only after engine is shut off, key removed, and all moving parts stopped.

WARNING

Before raising cover, shut off engine, remove key, and set parking brake.

BEFORE OPERATION

Clear the lawn of all sticks, stones, wire and other debris which may be caught or thrown by the mower blades.

Clean the tube with mild detergent (other products may damage tube). The flow of grass can be seen through the tube while moving.

Check grass condition. If wet, wait until later in the day. If grass is wet plugging may occur.

For efficient bagging, air circulation under the mower deck, through the chute and into the bag is very important. For this reason, you should remove grass and debris from underside of mower deck, discharge chute and cover.

The tube and elbow can be removed as an assembly for cleaning.

OPERATION - WITH CART COLLECTOR

WARNING

Shut the tractor's engine off before attaching, adjusting, or disconnecting the cart collector. Be sure the complete cart collector is in place before operating the tractor's mower.

WARNING

Do not tow the cart collector on slopes greater than 15°. Mow up and down the face of slopes; never across the face of any slope.

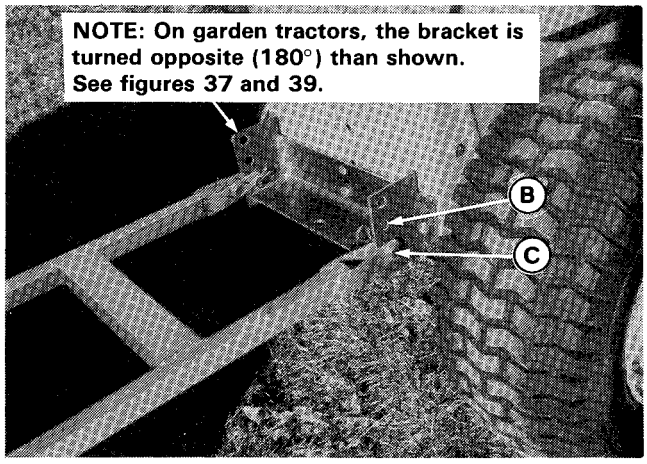


Figure 46.

1. Attach the cart as follows:
   a. Attach the cart to the tractor by aligning the two ends of the H-frame to the holes in the bracket (figure 46). Use the holes that will make the cart level, Secure the cart to the bracket with two clevis pins and hairpin cotters.
   b. Attach the cart to the bracket at points "B" and "C".

DUMPING GRASS AND LEAVES

1. Back the tractor to the desired place for unloading. Shut the tractor's engine off before getting off the tractor's seat.
2. Unhook the strap from the door lock and raise the cover assembly to the open position. Lock the cover in place by hooking the strap to the locking tab (figure 47).
3. Move the latch handle to the unlock position and dump the cart's box. The elbow will slide off the connecting tube and the cart's box will dump at a 90 degree angle for quick unloading. To reinstall elbow, shape tube into an oval to fit elbow.
4. If bagging the grass clippings is desired, the grass can be pulled from the cart at the rear side into a plastic lawn bag. Also, the grass can be dumped onto a tarp for throwing into a trailer.

⚠ WARNING

For safety reasons, grass and debris are to be removed only after engine is shut off, key removed, and all moving parts stopped.

⚠ WARNING

Before raising cover, shut off engine, remove key, and set parking brake.

⚠ CAUTION

Do not haul sharp objects that may puncture the cover.

5. The cover can be removed entirely from the cart. Once the cover is removed, the cart can be used for hauling bulky loads.

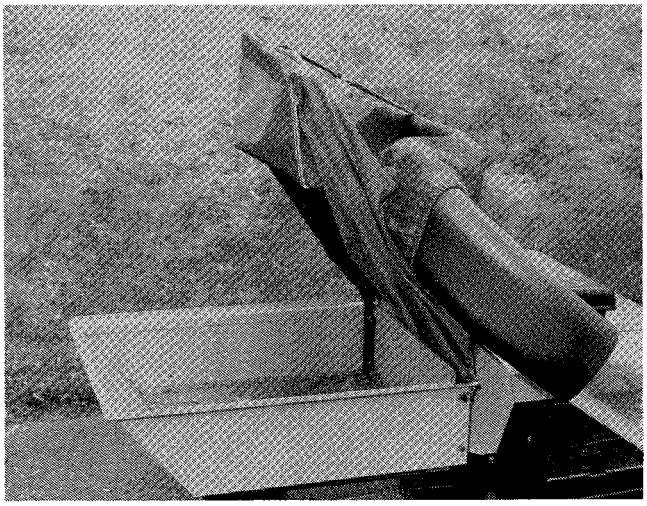


Figure 47.

OPERATING WITHOUT COLLECTION SYSTEM

42" & 48" Mowers

⚠ WARNING

When blower assembly is removed from mower deck, the deflector must be installed as described in this section.

To operate without the grass collection system, remove the blower assembly by loosening the front wing nut on blower housing and slipping belt off of the pulley. Re-install the mower deflector (figure 48) and the original hardware. Install two carriage bolts from bottom and install washers and nuts (A). Install the front washers (B) and nut (C). Be sure flat washers and lockwashers are used at all three locations.

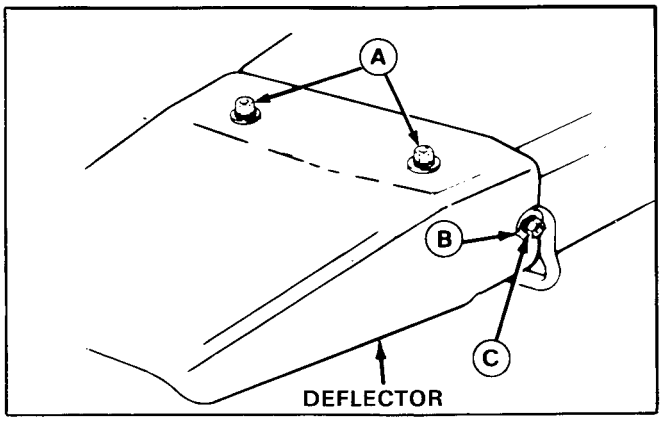


Figure 48.

A. Nut
B. Washer
C. Nut

Pivot the cover (A, figure 49) over the arbor pulley and hook into the notch (C) on the arbor bracket.

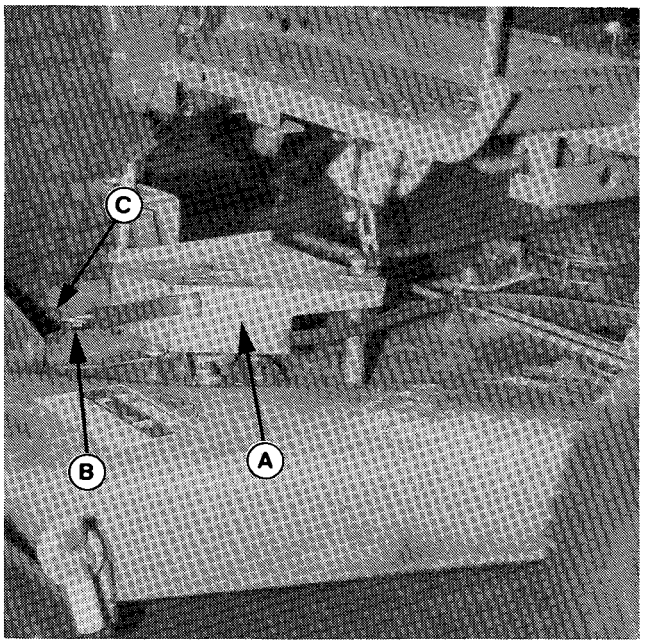


Figure 49.
A. Cover
B. Hook
C. Notch

36" Mowers

To remove the blower assembly, first loosen the front wing nut. To provide belt slack, push the belt retainer. Slip the belt off the pulley. The blower can be removed from deck.

Install the mower deflector (A, figure 50) with two carriage bolts, lockwashers and nuts.

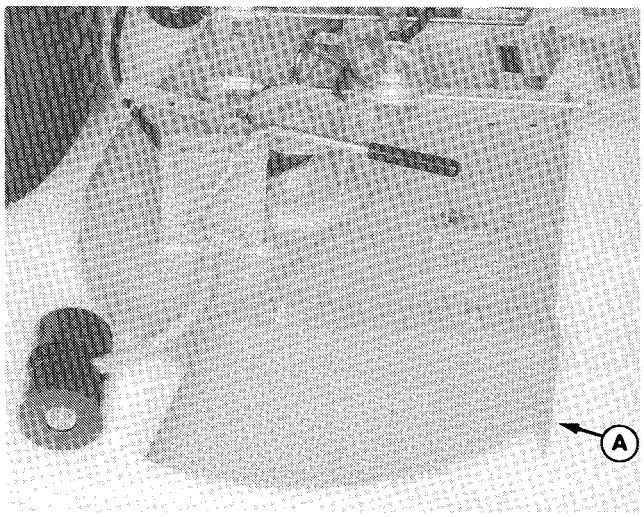
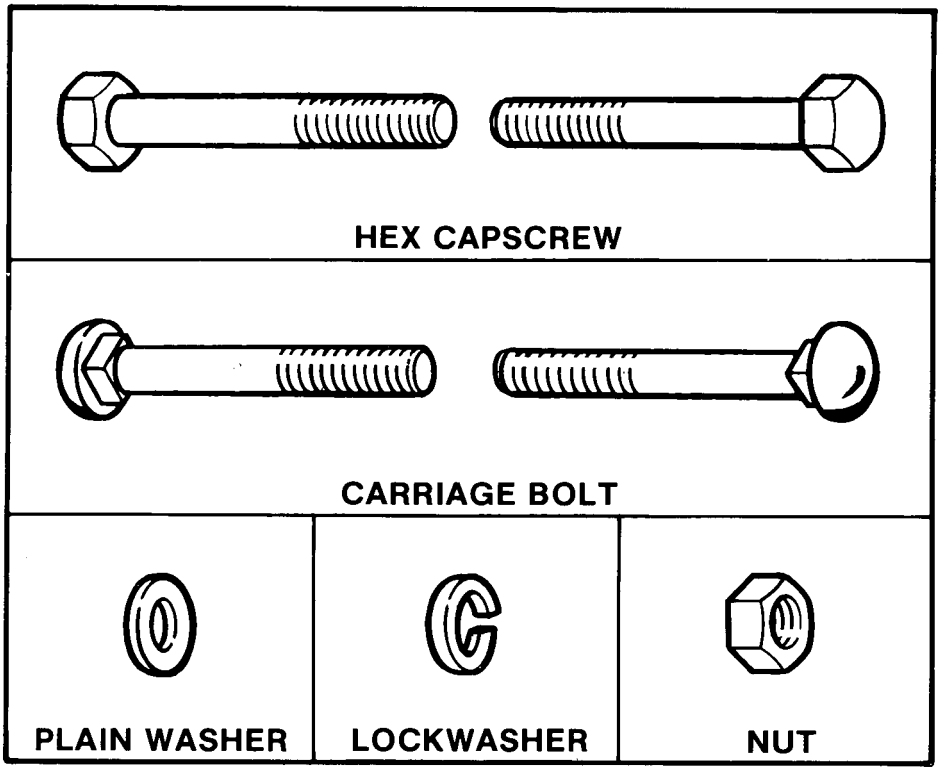


Figure 50.
A. Deflector

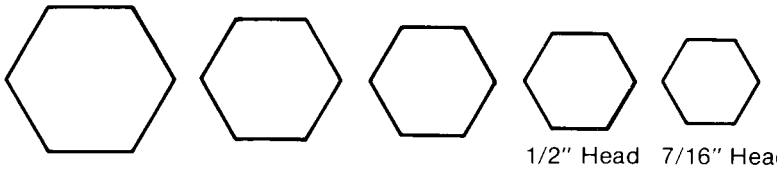
EDGE OF DECK

TEMPLATE FOR DRILLING MOUNTING HOLE FOR 36″ TURBO VAC.



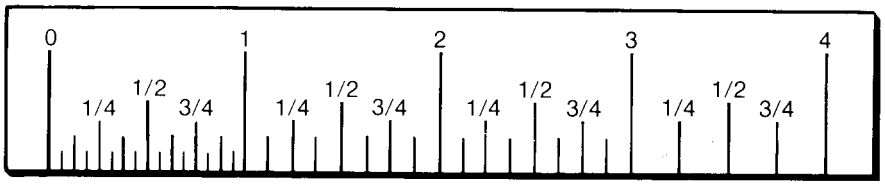
HEX CAPSCREW IDENTIFICATION

Shown below are actual size hex heads for standard screw sizes. Example: a 1/4" screw has a 7/16 head and thus requires a 7/16 wrench. To measure length, use the scale below.



3/4" Head screw with 1/2" S.D. | 5/8" Head screw with 7/16" S.D. | 9/16" Head screw with 3/8" S.D. | 1/2" Head screw with 5/16" S.D. | 7/16" Head screw with 1/4" S.D.

S.D. = Shaft Diameter



WASHER AND NUT IDENTIFICATION

Place the washer or nut on the above scale to determine the inside diameter. The actual inside diameter can vary 1/16 inch. Use the scale for comparison.

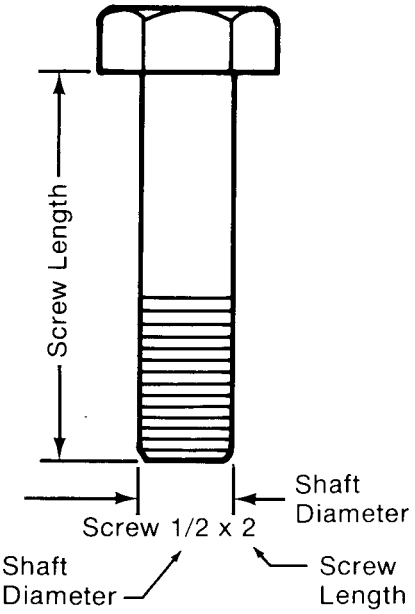
STANDARD FASTENER IDENTIFICATION CHART

Hardware sizes are given in the illustrations throughout this manual.

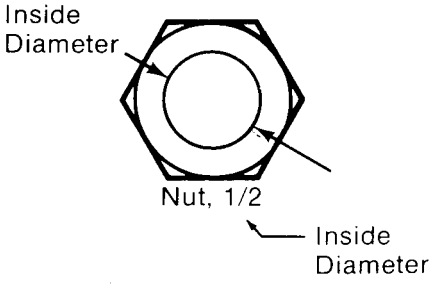
If a washer or nut is identified as "washer, 1/2" or "nut, 1/2", this means the inside diameter is 1/2 inch.

If a screw is identified as "screw, 1/2 x 2", this means the shaft diameter is 1/2 inch and the shaft of the screw is 2 inches long. If a screw is identified as "screw, 1/2-16 x 2", the number "16" means that the screw has 16 threads per inch.

SAMPLE: SCREW IDENTIFICATION



SAMPLE: NUT IDENTIFICATION



TORQUE SPECIFICATIONS FOR STANDARD MACHINE HARDWARE

TOLERANCE ± 10%

SIZE	SAE GRADE #2		SAE GRADE #5		SAE GRADE #8	
8-32	19	In. Lbs.	30	In. Lbs.	41	In. Lbs.
8-36	20	"	31	"	43	"
10-24	27	"	43	"	60	"
10-32	31	"	49	"	68	"
1/4-20	66	"	8	Ft. Lbs	12	Ft. Lbs.
1/4-28	76	"	10	"	14	"
5/16-18	11	Ft. Lbs	17	"	25	"
5/16-24	12	"	19	"	25	"
3/8-16	20	"	30	"	45	"
3/8-24	23	"	35	"	50	"
7/16-14	30	"	50	"	70	"
7/16-20	35	"	55	"	80	"
1/2-13	50	"	75	"	110	"
1/2-20	55	"	90	"	120	"
9/16-20	65	"	110	"	150	"
9/16-18	75	"	120	"	170	"
5/8-11	90	"	150	"	220	"
5/8-18	100	"	180	"	240	"
3/4-10	160	"	260	"	386	"
3/4-16	180	"	300	"	420	"
7/8-9	140	"	400	"	600	"
7/8-14	155	"	440	"	660	"
1-8	220	"	580	"	900	"
1-12	240	"	640	"	1,000	"

NOTES:

1. **These torque values are to be used for all Simplicity hardware excluding: locknuts, self-tapping screws, thread forming screws, and sheet metal screws.**

2. **Unless otherwise noted on assembly drawings all torque values must meet this specification.**

BOLT HEAD MARKING S.A.E. GRADE:

2

5

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